11. BLOCK DIAGRAMS

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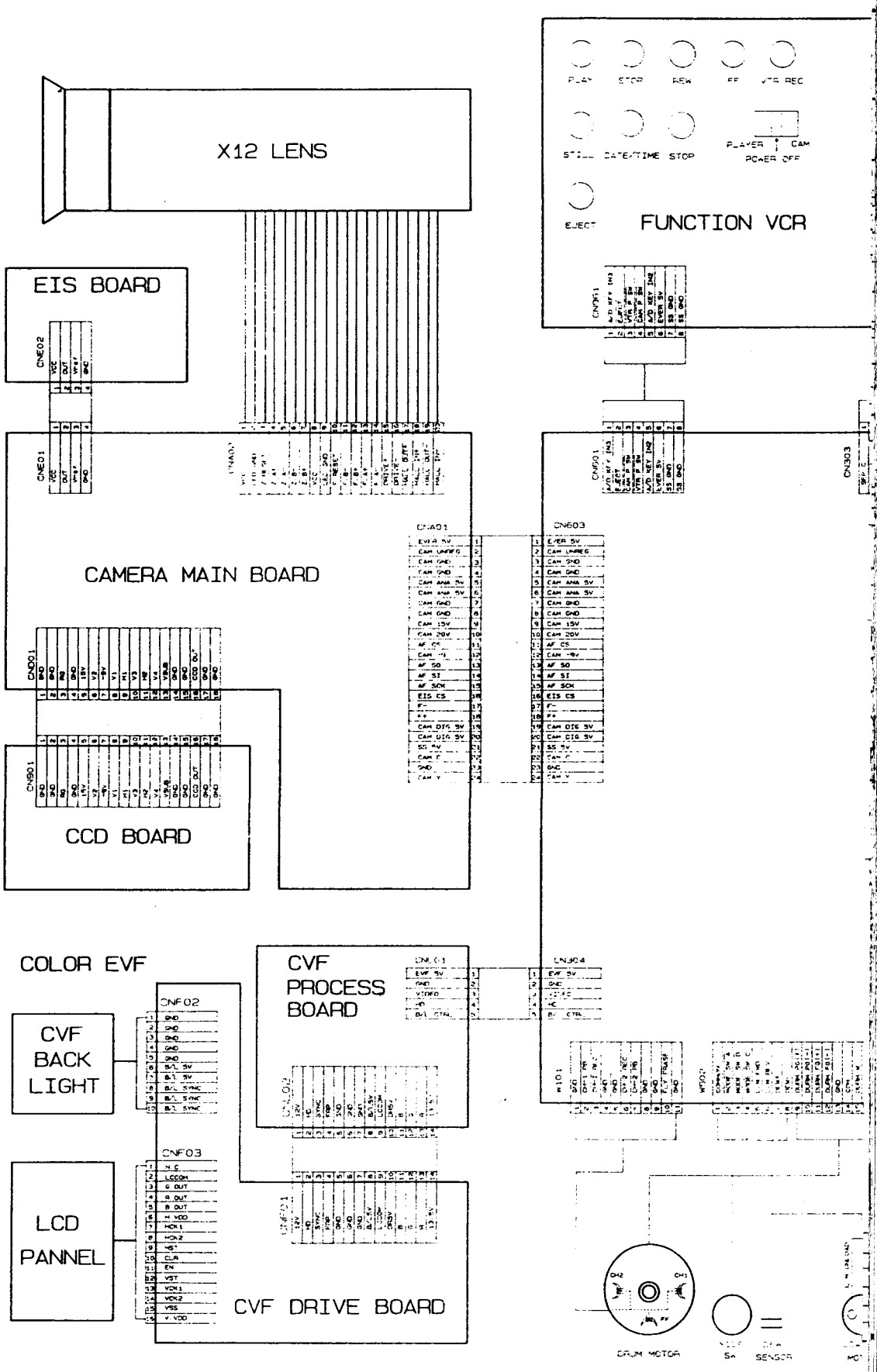
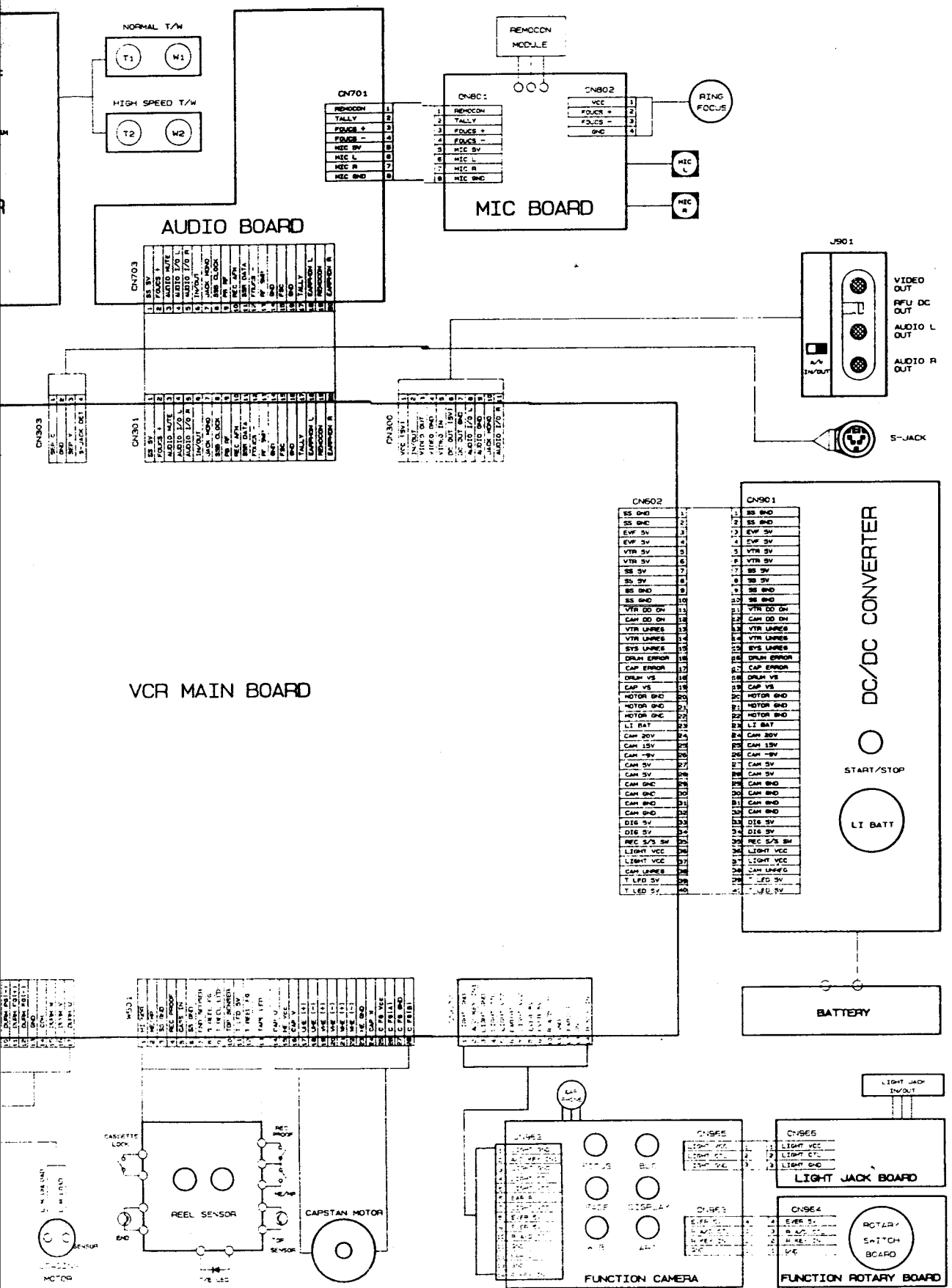
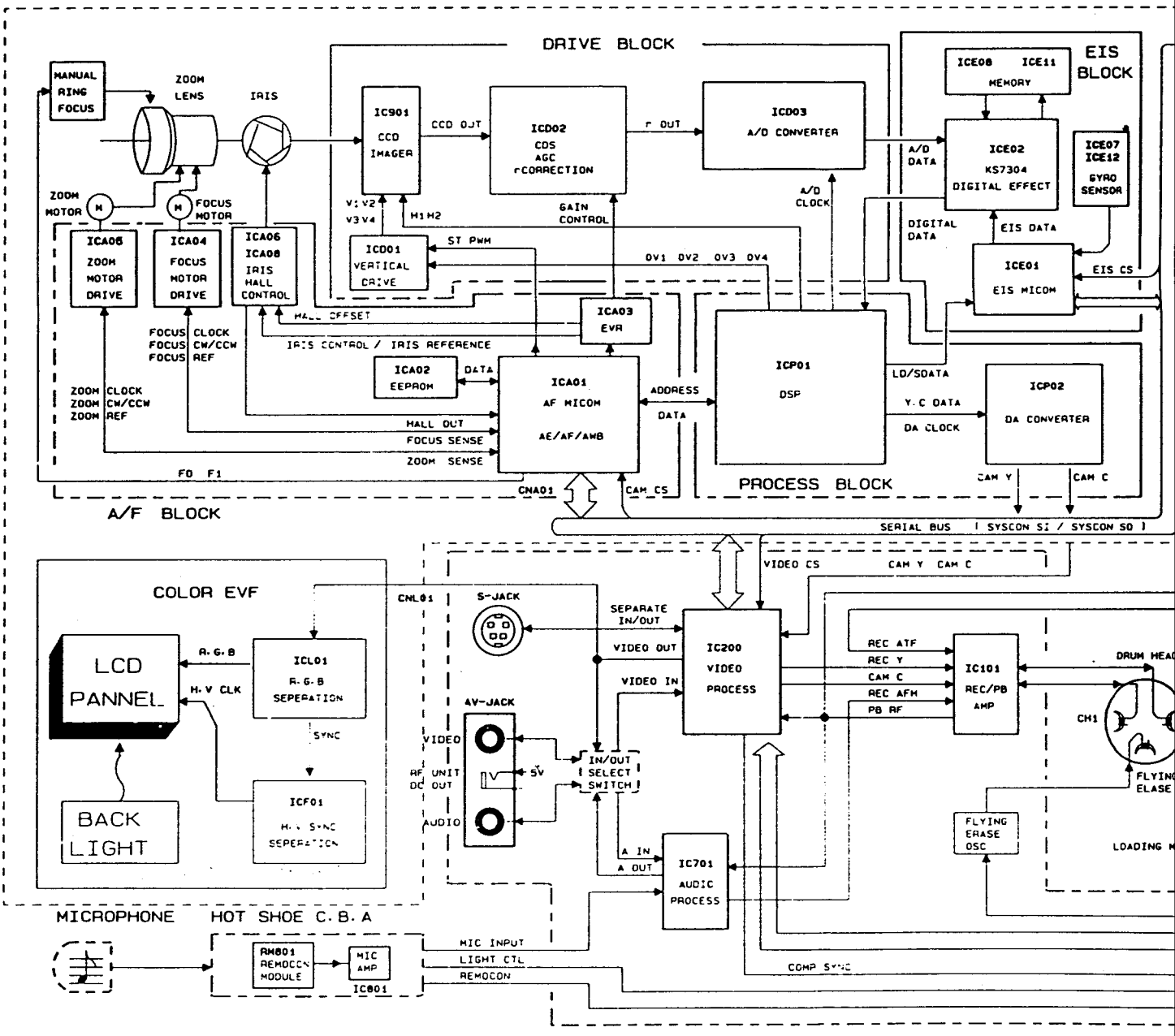
11-1. TOTAL WIRING DIAGRAM



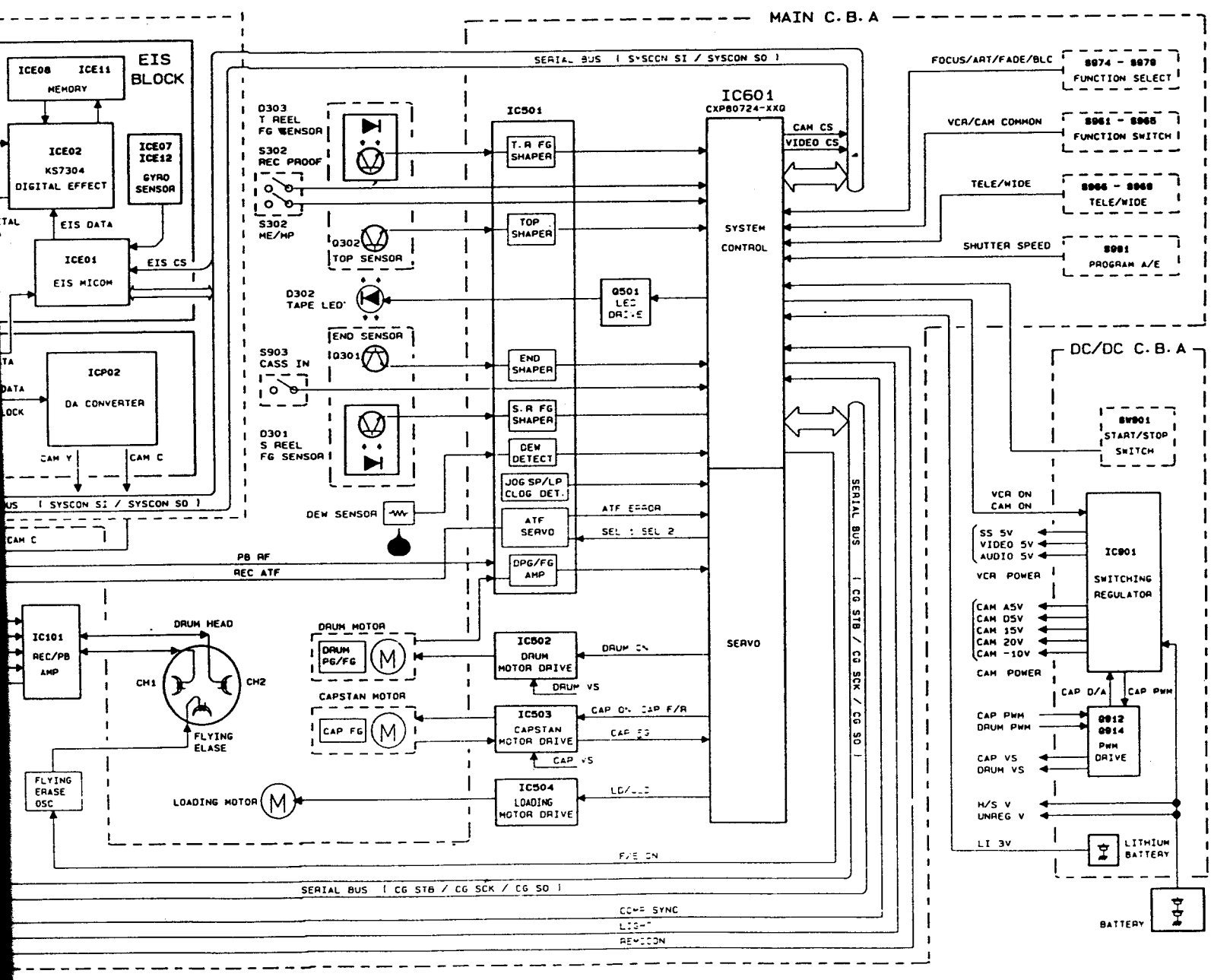

NORMAL T/W
T1
W1
HIGH SPEED T/W
T2
W2
AUDIO BOARD
CN703
CN701
REMOCON MODULE
CN801
CN802
MIC BOARD
RING FOCUS
MIC L
MIC R
J901
VIDEO OUT
RFU DC OUT
AUDIO L OUT
AUDIO R OUT
IN/OUT
S-JACK
CN303
CN301
CN300
CN602
CN901
DC/DC CONVERTER
START/STOP
LI BATT
VCR MAIN BOARD
BATTERY
CASSETTE LOCK
REEL SENSOR
CAPSTAN MOTOR
REC PROOF
END
TOP SENSOR
FUNCTION CAMERA
CN965
CN963
CN964
LIGHT JACK BOARD
ROTARY SWITCH BOARD
FUNCTION ROTARY BOARD

11-2. OVERALL BLOCK DIAGRAM

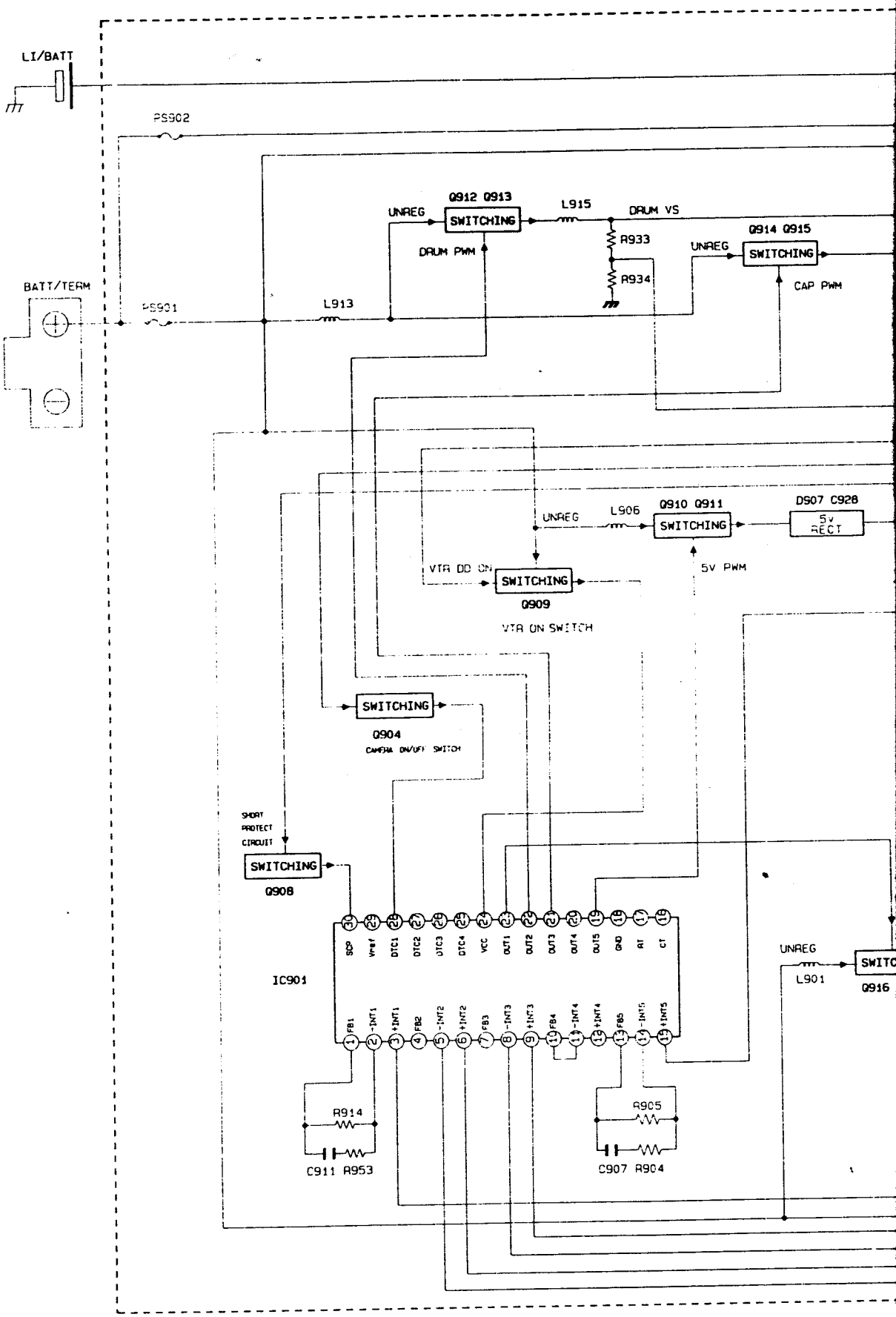
CAMERA

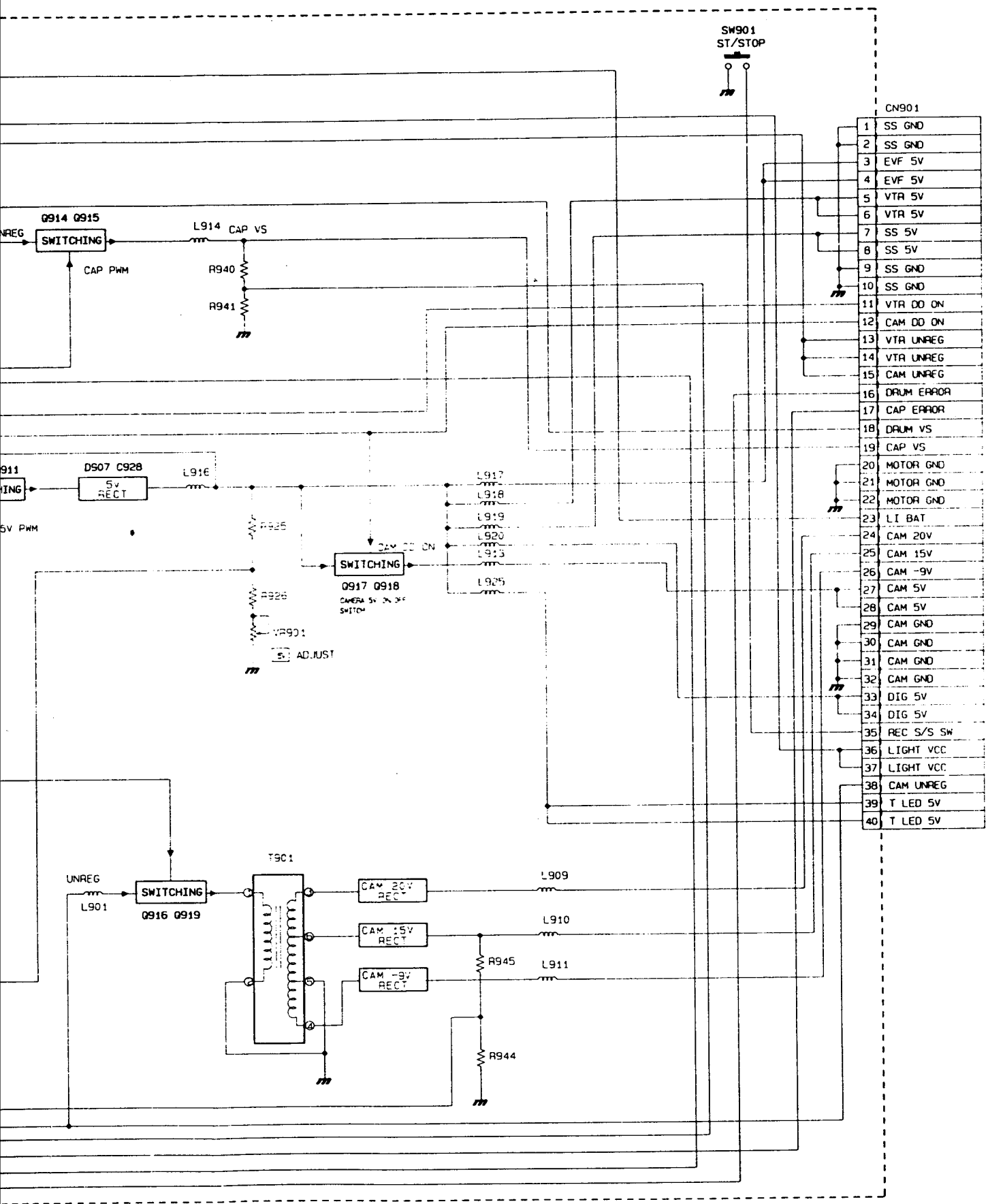


VCR

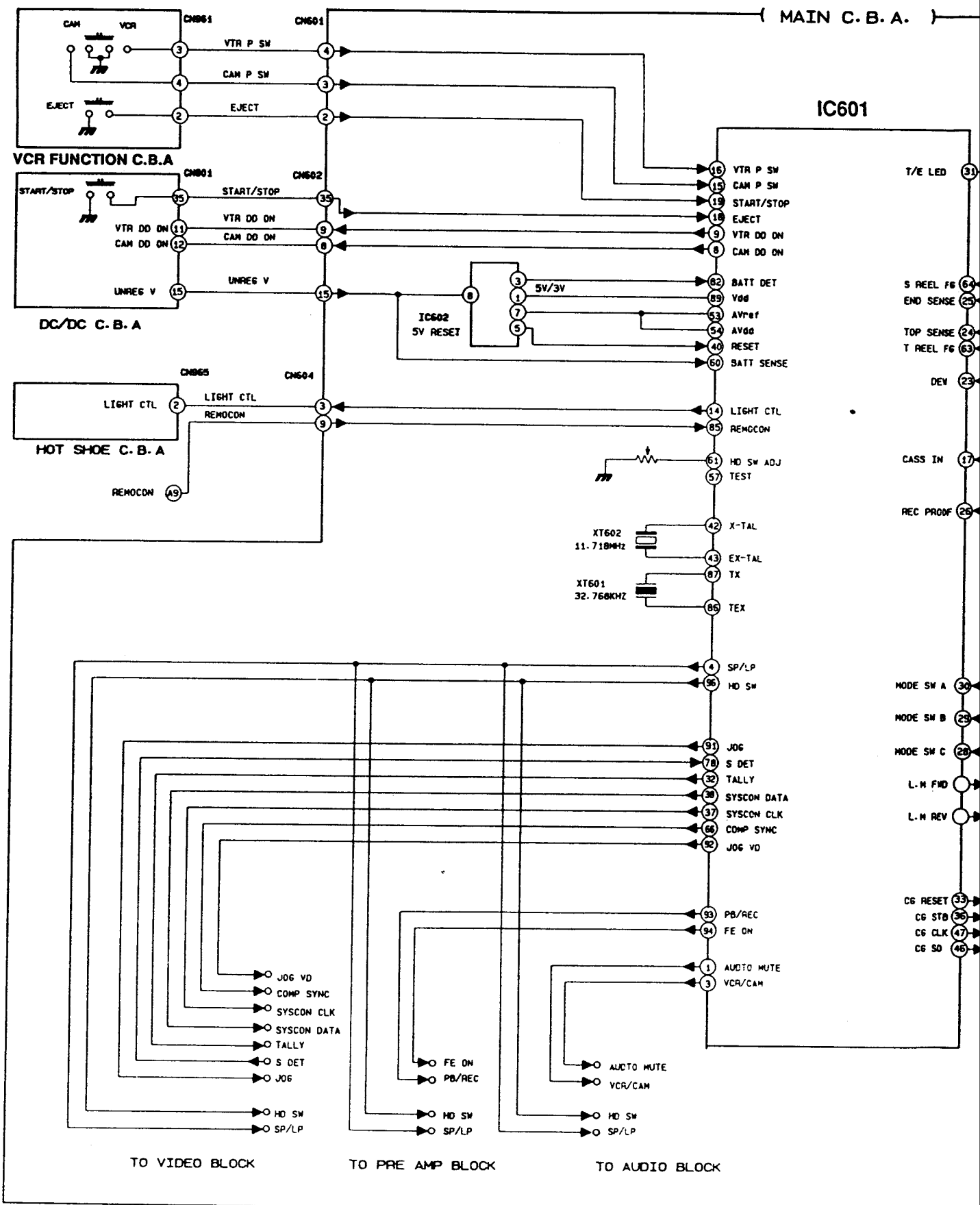

MAIN C.B.A
EIS BLOCK
ICE08 ICE11
MEMORY
ICE02
KS7304
DIGITAL EFFECT
ICE07
ICE12
GYRO SENSOR
EIS DATA
ICE01
EIS MICOM
EIS CS
ICP02
DA CONVERTER
CAM Y
CAM C
SERIAL BUS (SYSCON SI / SYSCON SO)
D303
T REEL
FG SENSOR
S302
REC PROOF
S302
ME/MP
Q302
TOP SENSOR
D302
TAPE LED
END SENSOR
Q301
S903
CASS IN
D301
S REEL
FG SENSOR
DEW SENSOR
PB RF
REC ATF
IC501
T.R FG SHAPER
TOP SHAPER
Q501
LED DRIVE
END SHAPER
S.R FG SHAPER
DEW DETECT
JOG SP/LP CLOG DET.
ATF SERVO
DPG/FG AMP
ATF ERROR
SEL 1 SEL 2
IC601
CXP80724-XXQ
SYSTEM CONTROL
SERVO
CAM CS
VIDEO CS
FOCUS/ART/FADE/BLC
S974 - S978
FUNCTION SELECT
VCR/CAM COMMON
S961 - S965
FUNCTION SWITCH
TELE/WIDE
S966 - S968
TELE/WIDE
SHUTTER SPEED
S981
PROGRAM A/E
DC/DC C.B.A
SW901
START/STOP SWITCH
VCR ON
CAM ON
SS 5V
VIDEO 5V
AUDIO 5V
VCR POWER
CAM A5V
CAM D5V
CAM 15V
CAM 20V
CAM -10V
CAM POWER
IC901
SWITCHING REGULATOR
CAP D/A
CAP PWM
Q912
Q914
PWM DRIVE
CAP PWM
DRUM PWM
CAP VS
DRUM VS
H/S V
UNREG V
LI 3V
LITHIUM BATTERY
BATTERY
SERIAL BUS (CG STB / CG SCK / CG SO)
IC101
REC/PB AMP
DRUM HEAD
CH1
CH2
FLYING ELASE
FLYING ERASE OSC
DRUM MOTOR
DRUM PG/FG
IC502
DRUM MOTOR DRIVE
DRUM ON
DRUM VS
CAPSTAN MOTOR
CAP FG
IC503
CAPSTAN MOTOR DRIVE
CAP ON CAP F/R
CAP FG
CAP VS
LOADING MOTOR
IC504
LOADING MOTOR DRIVE
F/E ON
SERIAL BUS (CG STB / CG SCK / CG SO)
COMP SYNC
REMOCON

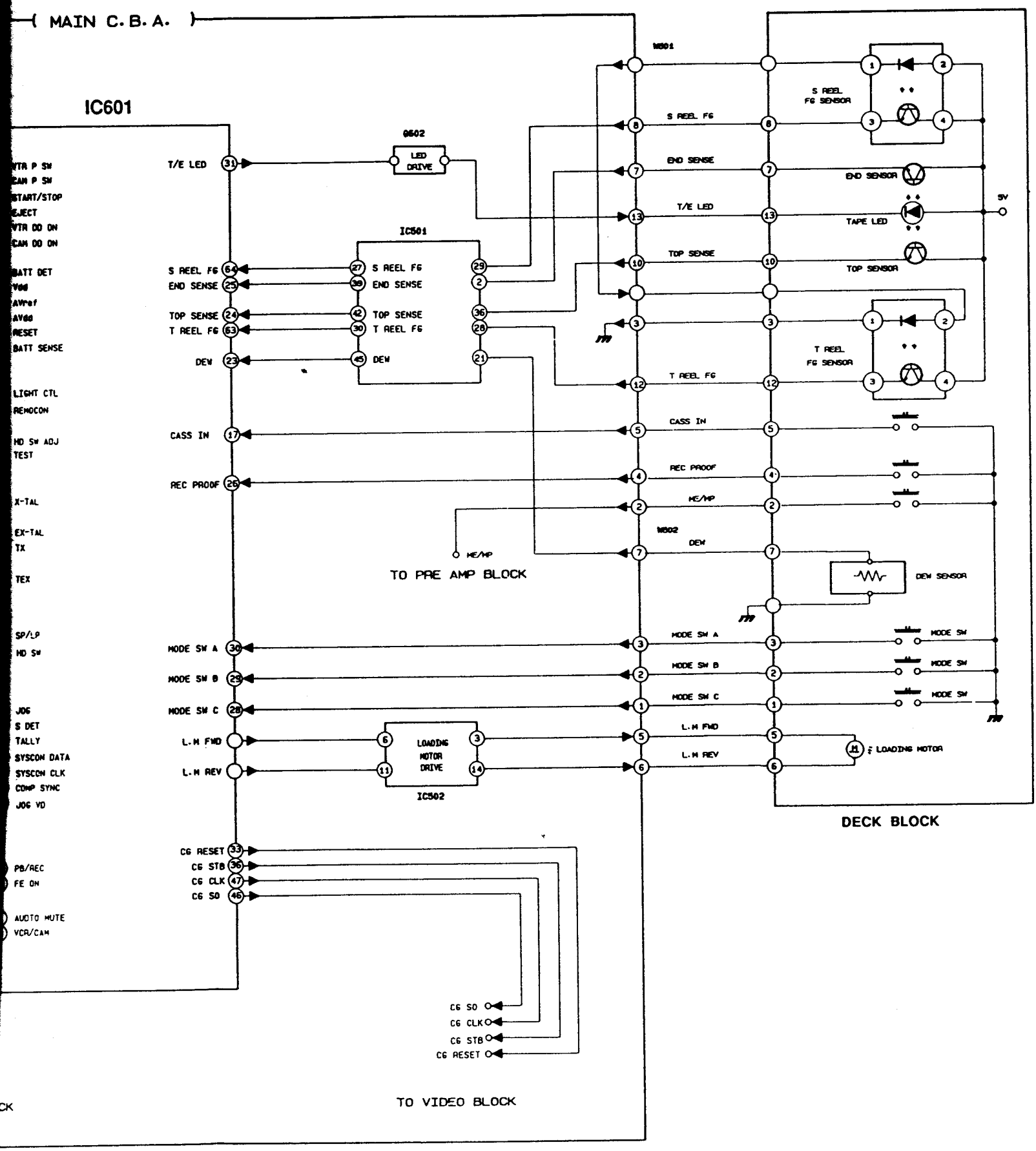
11-3. DC/DC CONVERTER



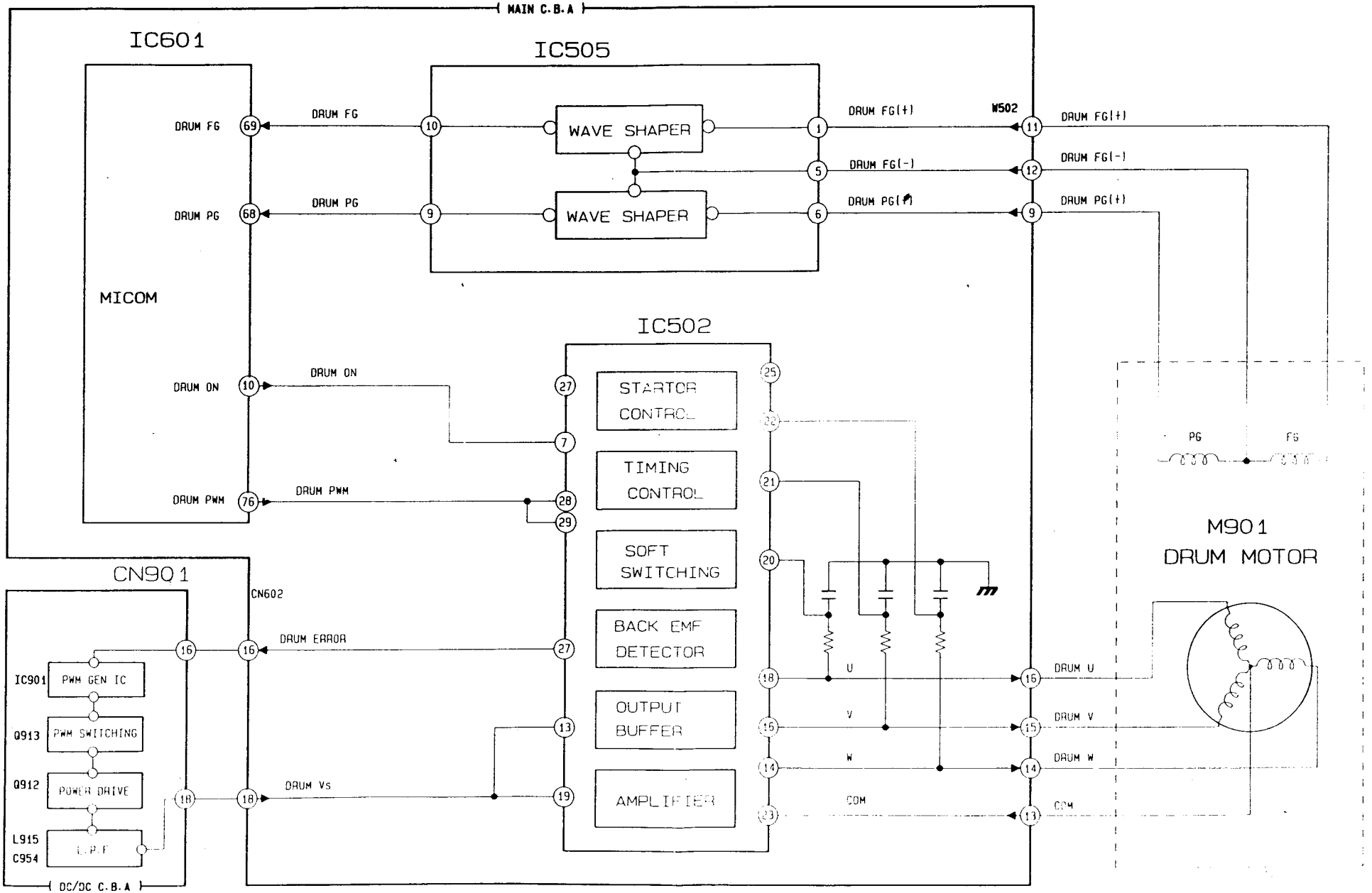

SW901
ST/STOP
CN901
1 SS GND
2 SS GND
3 EVF 5V
4 EVF 5V
5 VTR 5V
6 VTR 5V
7 SS 5V
8 SS 5V
9 SS GND
10 SS GND
11 VTR DD ON
12 CAM DD ON
13 VTR UNREG
14 VTR UNREG
15 CAM UNREG
16 DRUM ERROR
17 CAP ERROR
18 DRUM VS
19 CAP VS
20 MOTOR GND
21 MOTOR GND
22 MOTOR GND
23 LI BAT
24 CAM 20V
25 CAM 15V
26 CAM -9V
27 CAM 5V
28 CAM 5V
29 CAM GND
30 CAM GND
31 CAM GND
32 CAM GND
33 DIG 5V
34 DIG 5V
35 REC S/S SW
36 LIGHT VCC
37 LIGHT VCC
38 CAM UNREG
39 T LED 5V
40 T LED 5V
Q914 Q915
SWITCHING
CAP PWM
L914 CAP VS
R940
R941
DS07 C928
5v RECT
L916
L917
L918
L919
L920
L913
L925
R926
R928
VR901
5v ADJUST
SWITCHING
Q917 Q918
UNREG
L901
SWITCHING
Q916 Q919
T901
CAM 20V RECT
CAM 15V RECT
CAM -9V RECT
L909
L910
L911
R945
R944

11-4. SYSTEM COTROL

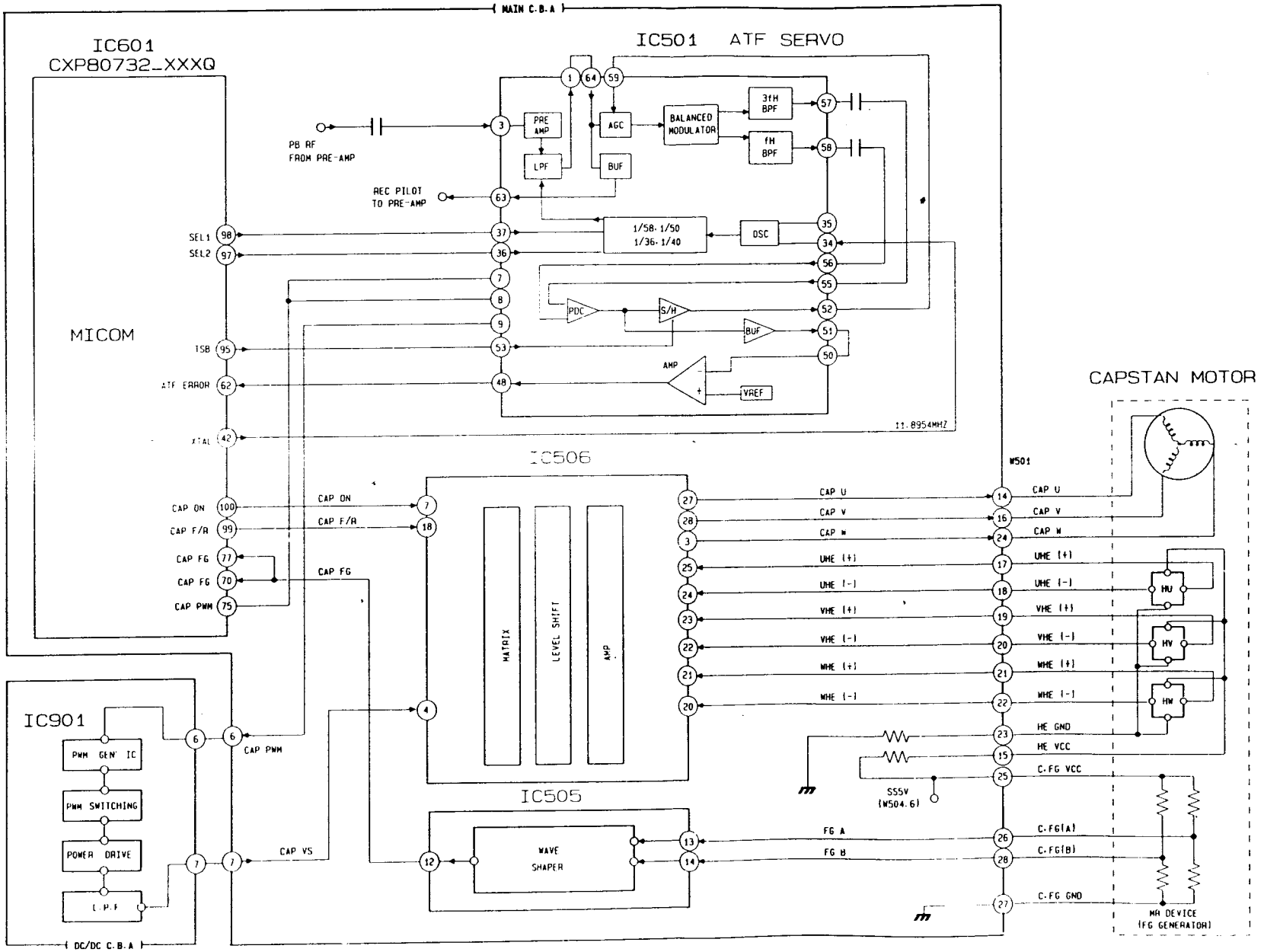



MAIN C.B.A.
IC601
VTR P SW
CAM P SW
START/STOP
EJECT
VTR DD ON
CAM DD ON
BATT DET
Vdd
AVref
AVdd
RESET
BATT SENSE
LIGHT CTL
REMOCON
HD SW ADJ
TEST
X-TAL
EX-TAL
TX
TEX
SP/LP
HD SW
JOG
S DET
TALLY
SYSCON DATA
SYSCON CLK
COMP SYNC
JOG VD
PB/REC
FE ON
AUDIO MUTE
VCR/CAM
T/E LED
Q602
LED DRIVE
IC501
S REEL FG
END SENSE
TOP SENSE
T REEL FG
DEW
CASS IN
REC PROOF
HE/MP
TO PRE AMP BLOCK
MODE SW A
MODE SW B
MODE SW C
L.M FWD
L.M REV
LOADING MOTOR DRIVE
IC502
CG RESET
CG STB
CG CLK
CG SO
TO VIDEO BLOCK
W601
S REEL FG
END SENSE
T/E LED
TOP SENSE
T REEL FG
CASS IN
REC PROOF
HE/MP
W602
DEW
S REEL FG SENSOR
END SENSOR
TAPE LED
5V
TOP SENSOR
T REEL FG SENSOR
DEW SENSOR
MODE SW
MODE SW
MODE SW
LOADING MOTOR
DECK BLOCK

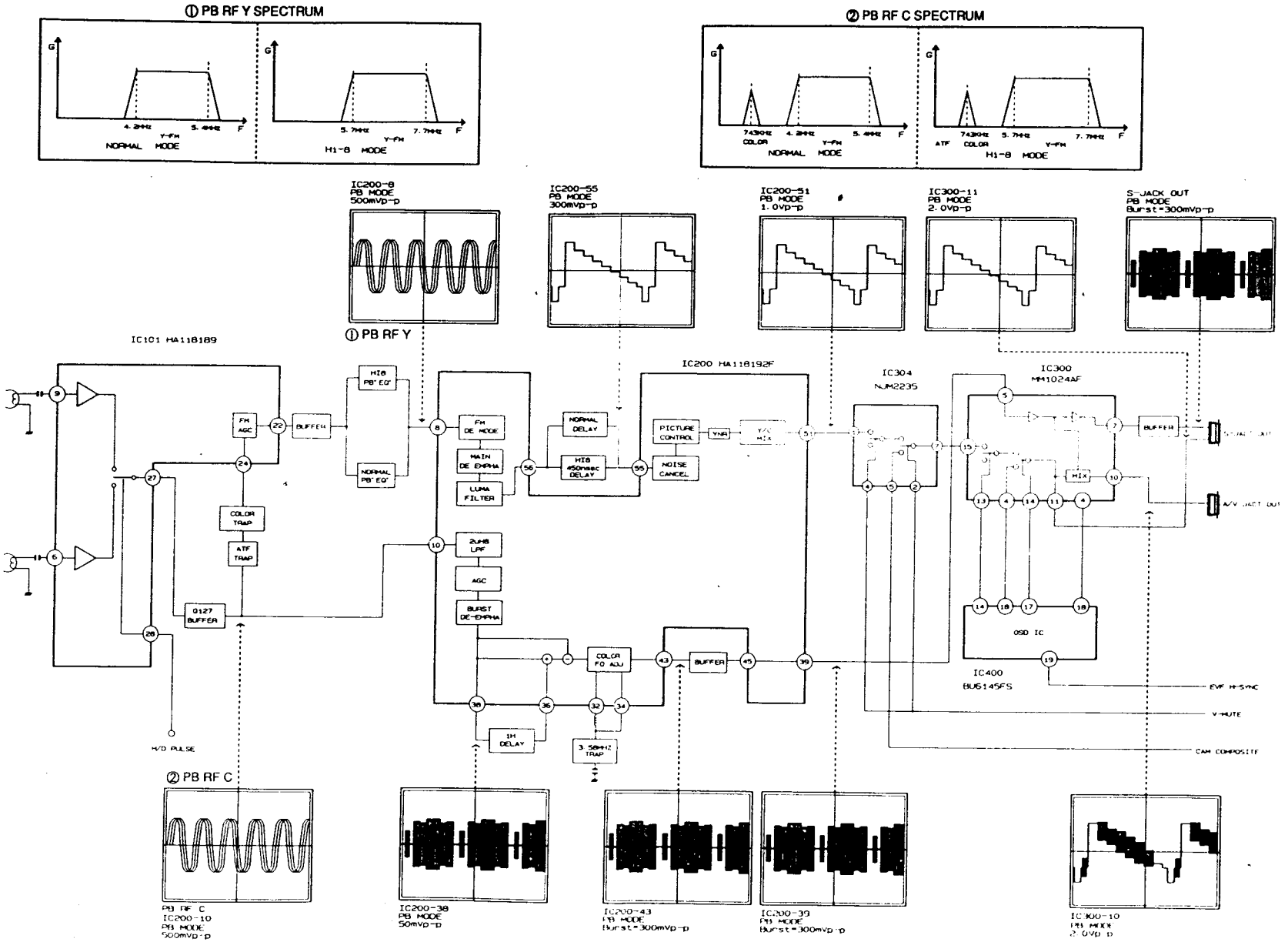
11-5. DRUM SERVO



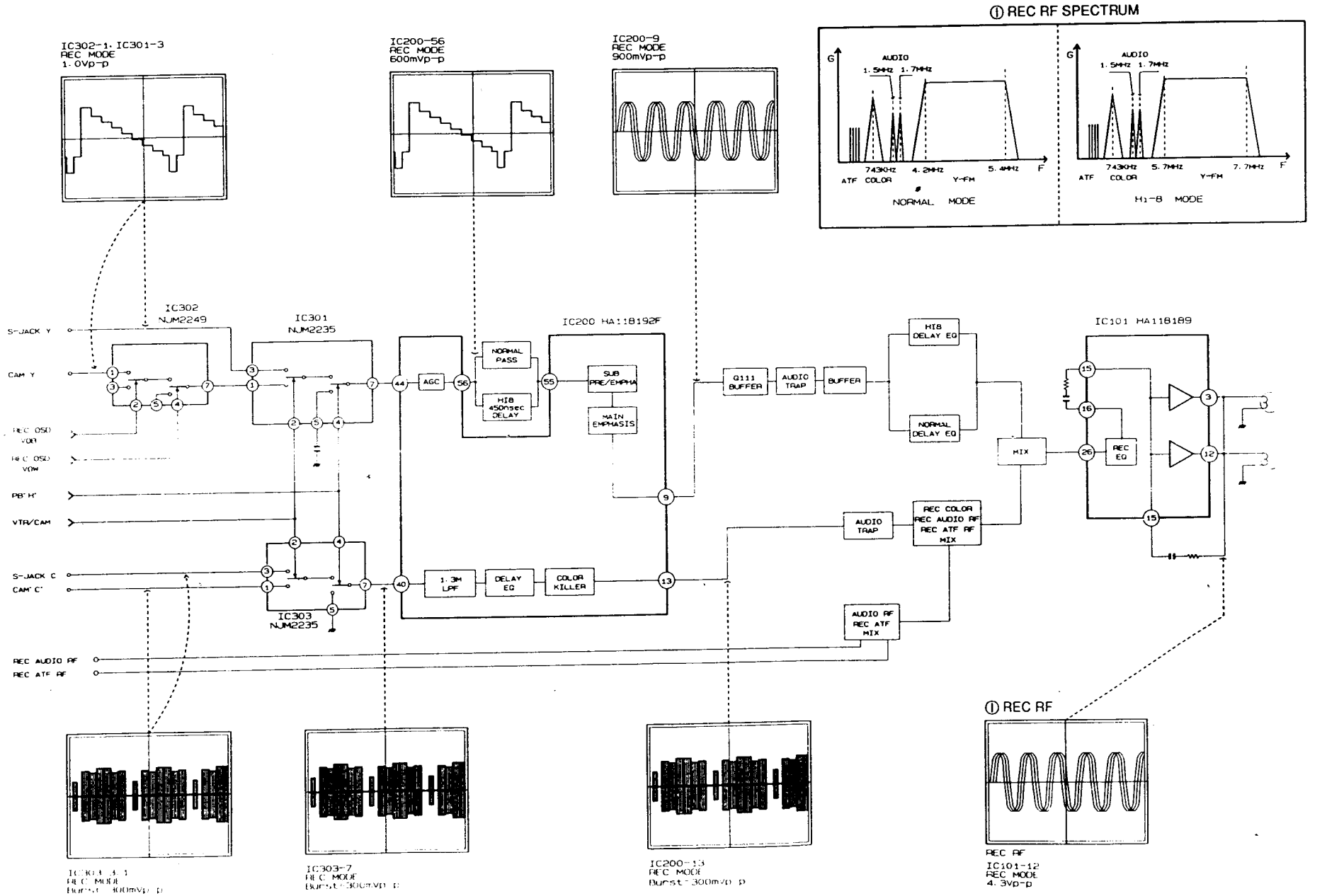
11-6. CAPSTAN SERVO



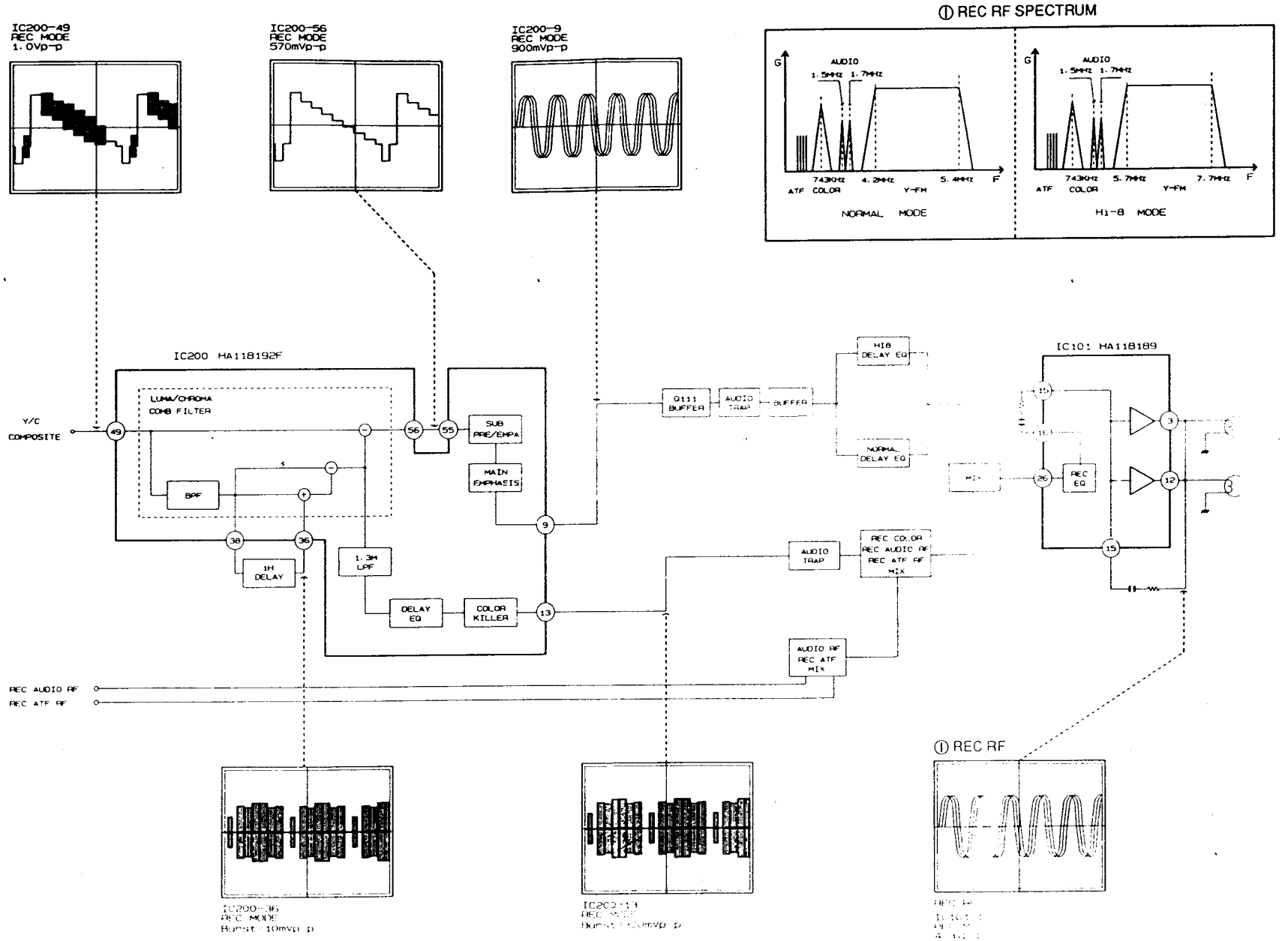
11-7. VIDEO PLAYBACK



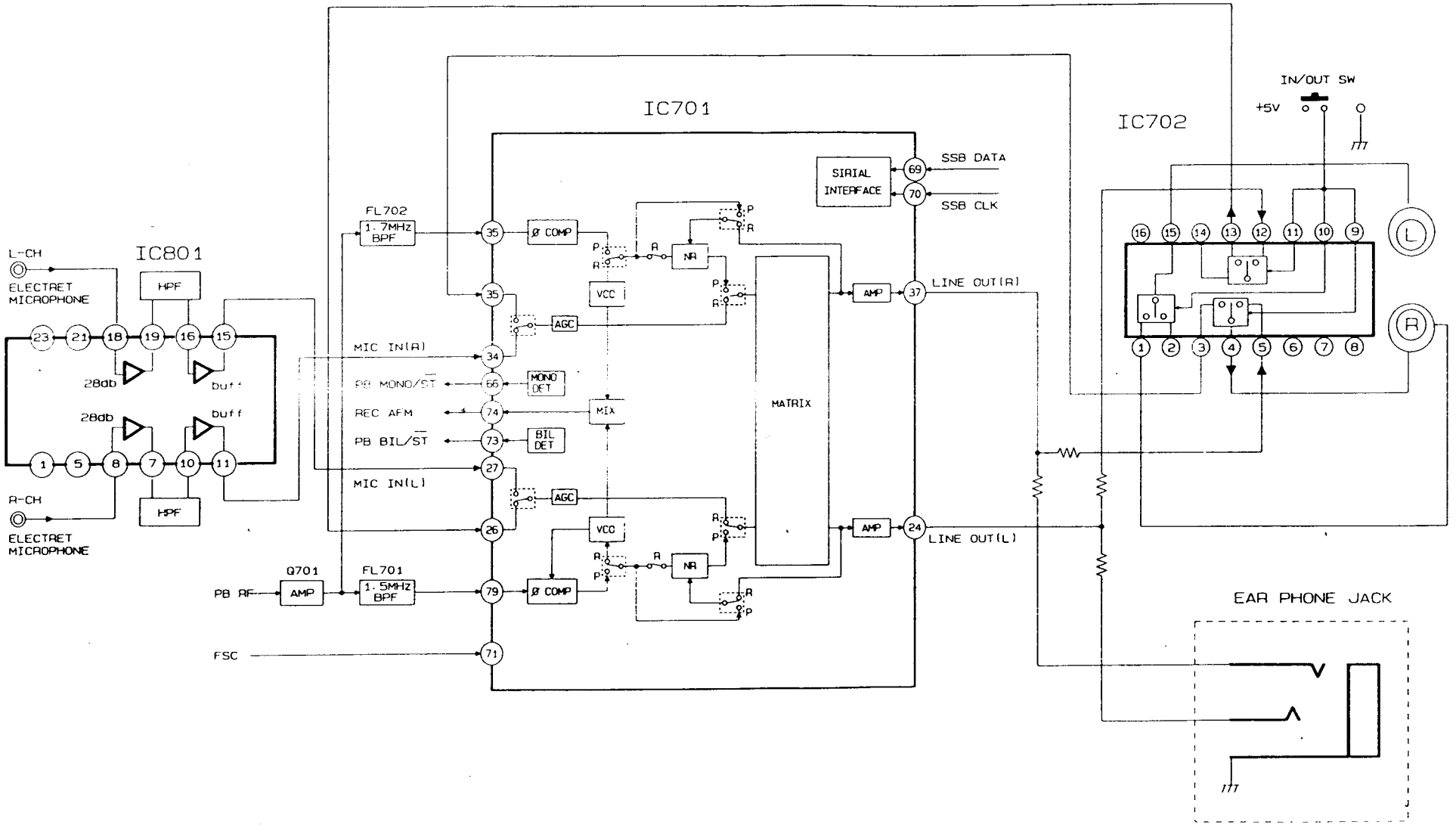
11-8. VIDEO RECORD (Y/C SEPARATE)



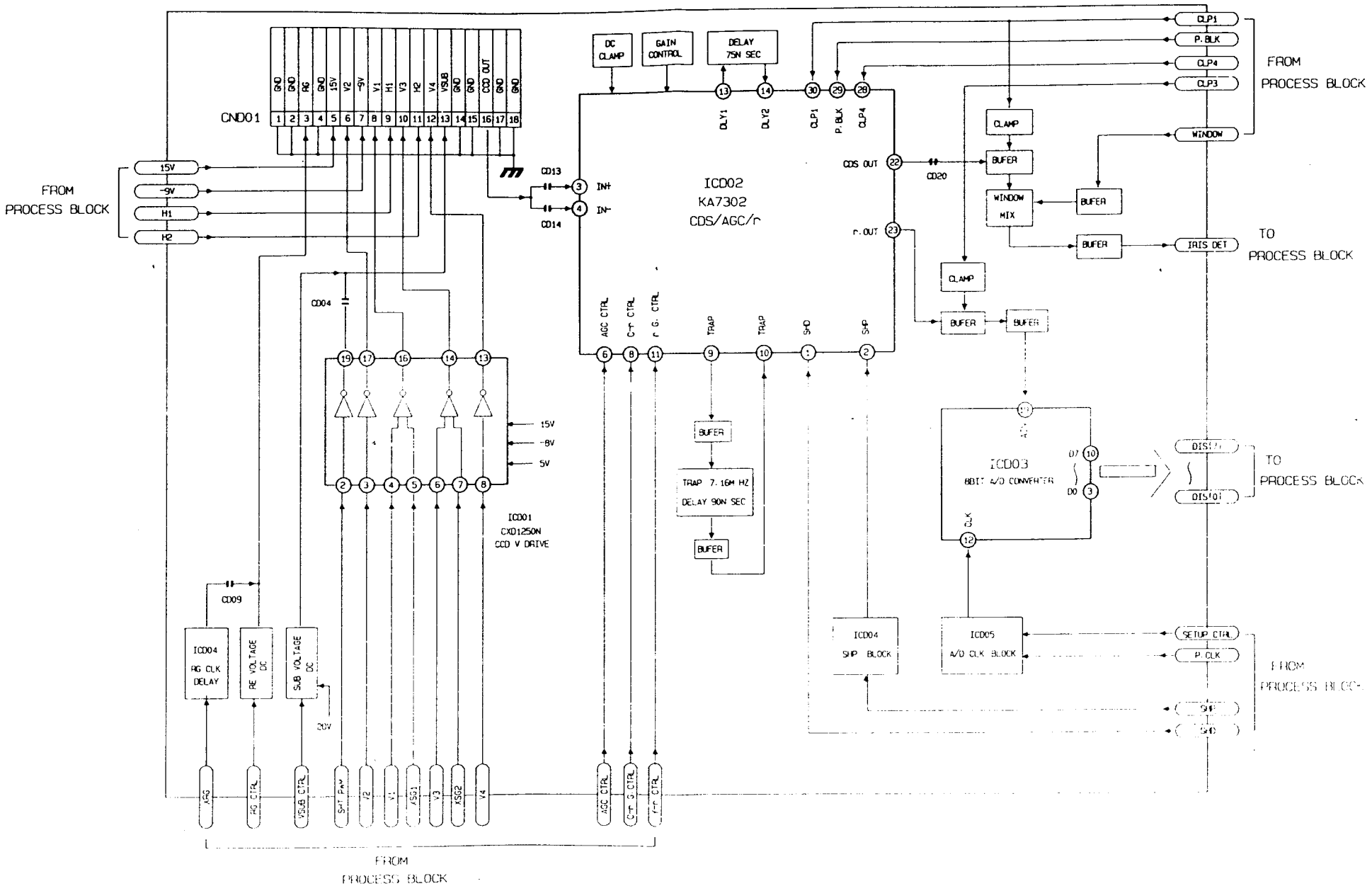
11-9. VIDEO RECORD (COMPOSITE INPUT)



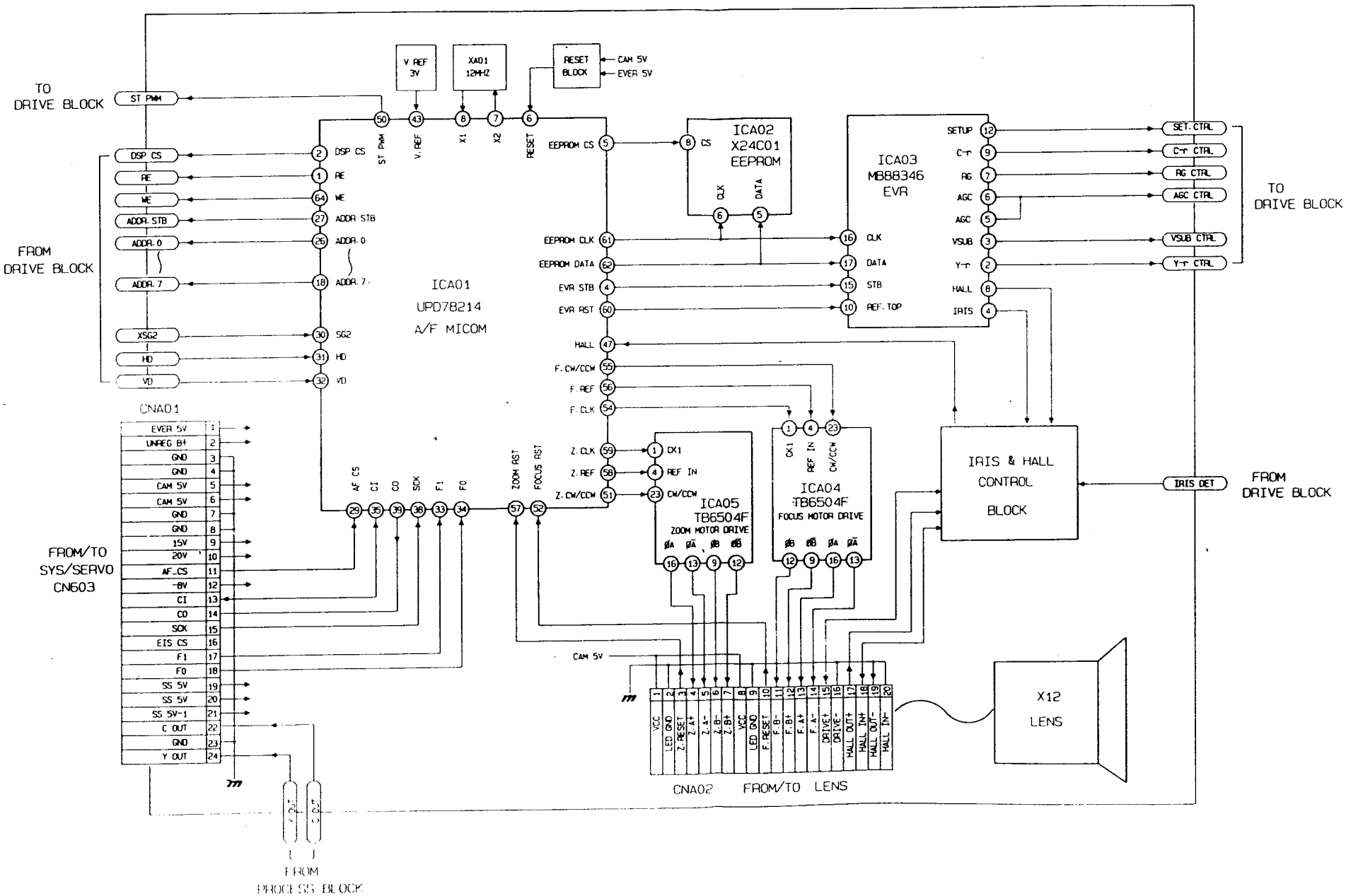
11-10. AUDIO


IC701
IC702
IC801
L-CH
ELECTRET MICROPHONE
R-CH
ELECTRET MICROPHONE
HPF
28db
buff
FL702
1.7MHz BPF
FL701
1.5MHz BPF
Q701
AMP
PB RF
FSC
MIC IN(R)
MIC IN(L)
PB MONO/ST
REC AFM
PB BIL/ST
MONO DET
BIL DET
MIX
MATRIX
Ø COMP
VCC
AGC
NR
SIRIAL INTERFACE
SSB DATA
SSB CLK
LINE OUT(R)
LINE OUT(L)
IN/OUT SW
+5V
EAR PHONE JACK

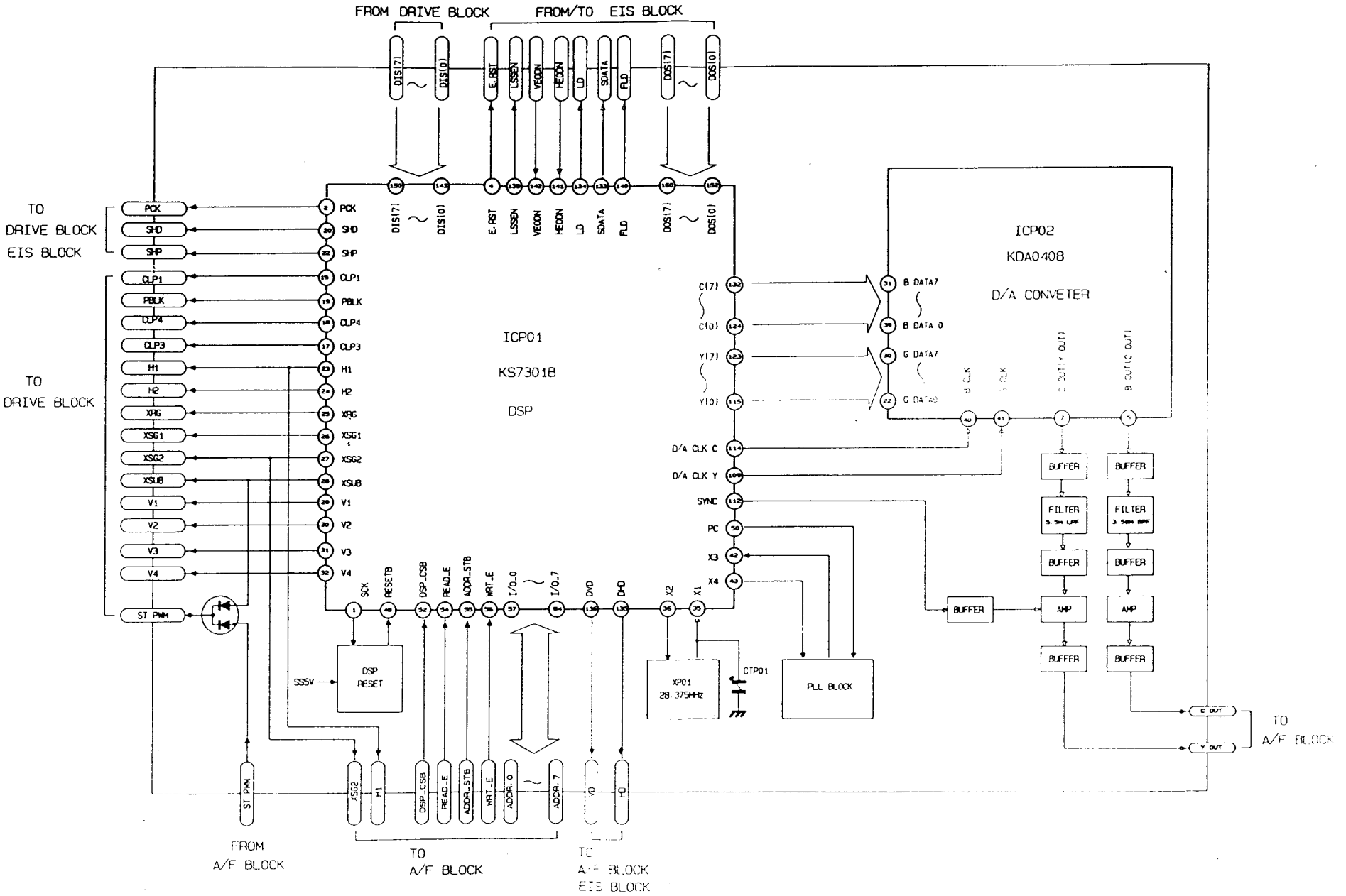
11-11. DRIVE

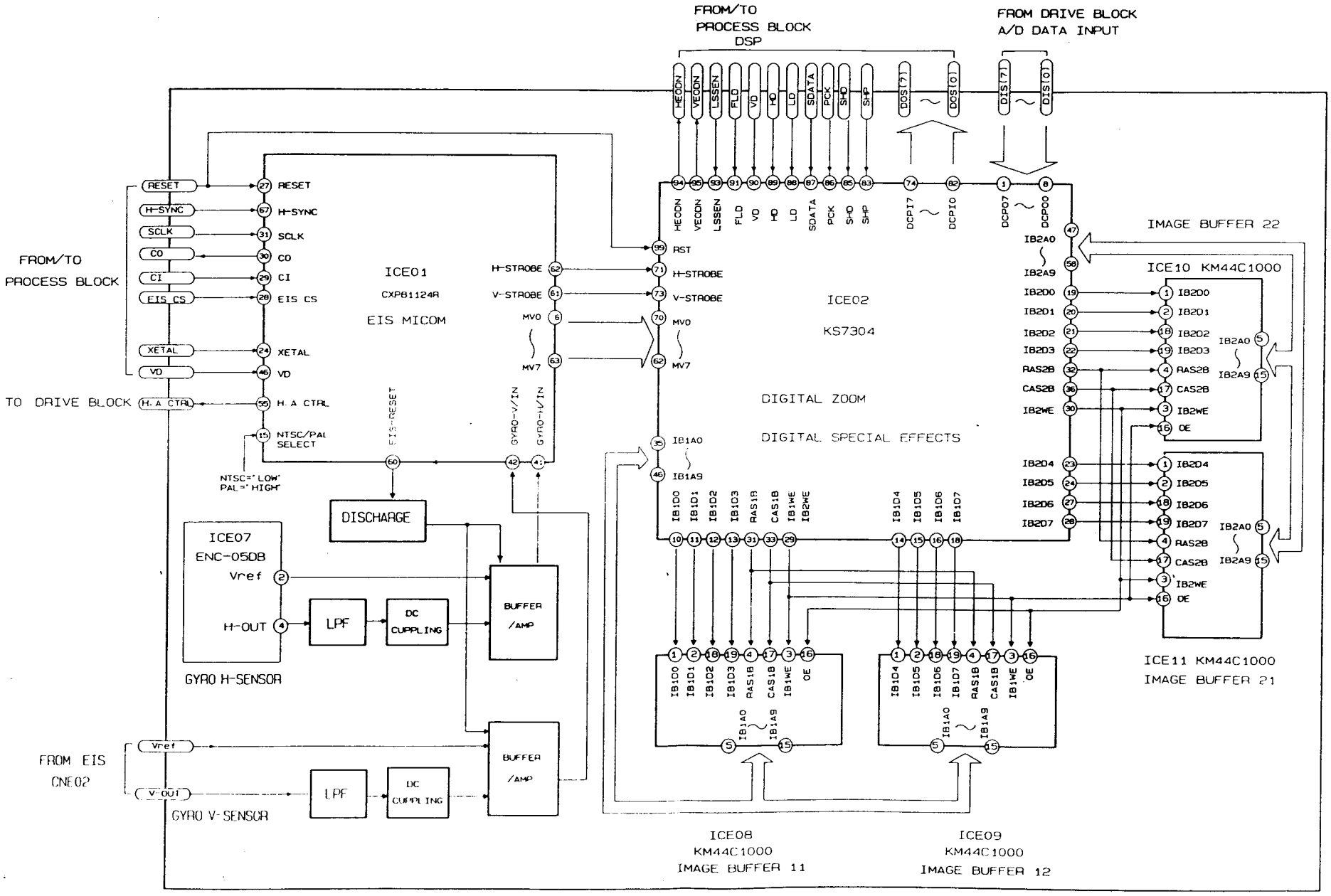

CND01
GND GND RG GND 15V V2 -9V V1 H1 V3 H2 V4 VSUB GND GND CCD OUT GND GND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
FROM PROCESS BLOCK
15V
-9V
H1
H2
CD13
CD14
IN+
IN-
ICD02
KA7302
CDS/AGC/Γ
DC CLAMP
GAIN CONTROL
DELAY 75N SEC
DLY1
DLY2
CLP1
P.BLK
CLP4
CLP3
FROM PROCESS BLOCK
WINDOW
CDS OUT
CD20
CLAMP
BUFER
WINDOW MIX
P.OUT
IRIS DET
TO PROCESS BLOCK
AGC CTRL
C-T CTRL
R.G. CTRL
TRAP
SHD
SHP
CD04
ICD01
CXD1250N
CCD V DRIVE
BUFER
TRAP 7.16M HZ
DELAY 90N SEC
ICD03
8BIT A/D CONVERTER
D7
D0
CLK
DIS(7)
DIS(0)
TO PROCESS BLOCK
CD09
ICD04
RG CLK DELAY
RG VOLTAGE DC
SUB VOLTAGE DC
20V
ICD04
SHP BLOCK
ICD05
A/D CLK BLOCK
SETUP CTRL
P.CLK
FROM PROCESS BLOCK
SHP
SHD
XRG
RG CTRL
VSUB CTRL
SHT PWR
V2
V1
XSG1
V3
XSG2
V4
AGC CTRL
C-T CTRL
R.G. CTRL
FROM PROCESS BLOCK

11-12. A/F


TO DRIVE BLOCK
FROM DRIVE BLOCK
ST PWM
DSP CS
RE
WE
ADDR. STB
ADDR. 0
ADDR. 7
XSG2
HD
VD
V REF 3V
XA01 12MHZ
RESET BLOCK
CAM 5V
EVER 5V
EEPROM CS
EEPROM CLK
EEPROM DATA
EVR STB
EVR RST
HALL
F. CW/CCW
F. REF
F. CLK
Z. CLK
Z. REF
Z. CW/CCW
AF CS
CI
CO
SCK
F1
F0
ZOOM RST
FOCUS RST
ICA01
UPD78214
A/F MICOM
ICA02
X24C01
EEPROM
CS
CLK
DATA
ICA03
MB88346
EVR
SETUP
C-T
RG
AGC
AGC
VSUB
Y-T
HALL
IRIS
REF. TOP
SET. CTRL
C-T CTRL
RG CTRL
AGC CTRL
VSUB CTRL
Y-T CTRL
TO DRIVE BLOCK
ICA05
TB6504F
ZOOM MOTOR DRIVE
ICA04
TB6504F
FOCUS MOTOR DRIVE
CK1
REF IN
CW/CCW
IRIS & HALL CONTROL BLOCK
IRIS DET
FROM DRIVE BLOCK
CNA01
EVER 5V
UNREG B+
GND
CAM 5V
GND
15V
20V
AF_CS
-8V
CI
CO
SCK
EIS CS
F1
F0
SS 5V
SS 5V
SS 5V-1
C OUT
GND
Y OUT
FROM/TO SYS/SERVO CN603
CAM 5V
VCC
LED GND
Z. RESET
Z. A+
Z. A-
Z. B-
Z. B+
F. RESET
F. B-
F. B+
F. A+
F. A-
DRIVE+
DRIVE-
HALL OUT+
HALL IN+
HALL OUT-
HALL IN-
CNA02 FROM/TO LENS
X12 LENS
FROM PROCESS BLOCK

11-13. PROCESS




FROM/TO
PROCESS BLOCK
DSP
FROM DRIVE BLOCK
A/D DATA INPUT
HEQDN
VEQDN
LSSEN
FLD
VD
HD
LD
SDATA
PCK
SHD
SHP
DOS(7)
DOS(0)
DIS(7)
DIS(0)
FROM/TO
PROCESS BLOCK
RESET
H-SYNC
SCLK
CO
CI
EIS CS
XETAL
VD
TO DRIVE BLOCK
H.A CTRL
NTSC/PAL
SELECT
NTSC='LOW'
PAL='HIGH'
ICE01
CXP81124A
EIS MICOM
H-STROBE
V-STROBE
MV0
MV7
EIS-RESET
GYRO-V/IN
GYRO-H/IN
ICE02
KS7304
DIGITAL ZOOM
DIGITAL SPECIAL EFFECTS
DCP17
DCP10
DCP07
DCP00
IB2A0
IB2A9
IB2D0
IB2D1
IB2D2
IB2D3
RAS2B
CAS2B
IB2WE
OE
IB2D4
IB2D5
IB2D6
IB2D7
IB1A0
IB1A9
IB1D0
IB1D1
IB1D2
IB1D3
RAS1B
CAS1B
IB1WE
IB2WE
IB1D4
IB1D5
IB1D6
IB1D7
IMAGE BUFFER 22
ICE10 KM44C1000
ICE11 KM44C1000
IMAGE BUFFER 21
DISCHARGE
ICE07
ENC-05DB
Vref
H-OUT
LPF
DC
CUPPLING
BUFFER
/AMP
GYRO H-SENSOR
FROM EIS
CNE02
V-OUT
GYRO V-SENSOR
ICE08
KM44C1000
IMAGE BUFFER 11
ICE09
KM44C1000
IMAGE BUFFER 12